

Fig. 2A

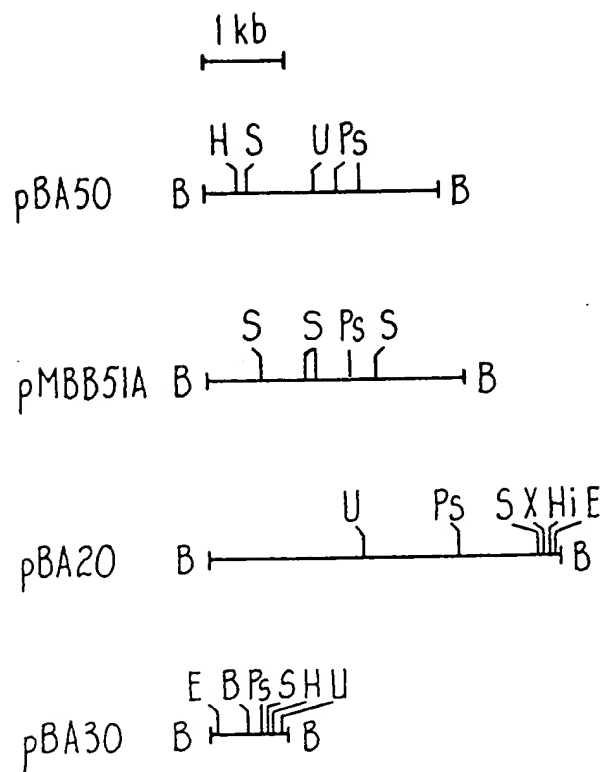


Fig. 2B

Fig. 4A

Fig. 4A

80

GGATCCCGCGTCATCGGTCAAACACCGCCTCGACGGTTACGCTGGCGCGCTGTCCACCGCGCGGAGGTG
GTGGCGGCAGCAGCATCTACGGCACCATCTGACCGGTACCAATACCTTCACTGCGAGCGCACCCGCAACCGG
CTGCACACGAACTCGCGGTATGCCCTCGAAATGGAAGCGGTGCGGAAATCTGCGCGTCTTTCGATATCCC
ATGGCTGGTCATTGCGCGCTCTCCGATCTCGCCGAGCCGATTGCGGGGTGGACTTCAATCGGTTTGTGCGCGAGGTGG

CGGCCAGTTCGGCCCGCTTCTGCTGCGCTTGCTGCCGGTGTGACGGCCTGTTGAAGACGACTATCCGCCGGTGCGTTC

ACC GGT CAG GCG GCTTCGGTGAGGTGAGTAATTGGTCAATTAATTGGTCATGCCCGCCCGCATGTTGAGCGGAGGCCA

S/D 508

CAGGTCGGCCGGAAGTGAGGACCAG ATG ACG GCG GCC GTG ACC GGT GAA CAC CAC GCG AGT GTG
MET Thr Ala Ala Val Thr Gly Glu His His Ala Ser Val

1

550

CAG CGG ATA CAA CTC AGA ATC AGC GGG ATG TCG TGC TCT GCG TGC GCC CAC CGT GTG GAA
Gln Arg Ile Gln Leu Arg 20

600

TCG ACC CTC AAC AAG CTG CCG GGG GTT CGG GCA GCT GTG AAC TTC GGC ACC CCG GTG GCA
Ser Thr Leu Asn Lys Leu 40

700

ACC ATC GAC ACC AGC GAG GCG GTC GAC GCT GCC GCG CTG TGC CAG GCG GTC CGC CGC GCG
Thr Ile Asp Thr Ser Glu Ala Val Asp Ala Ala Ala Leu Cys Gln Ala Val Arg Arg Ala

750

GGC TAT CAG GCC GAT CTG TGC ACG GAT GAC GGT CGG AGC GCG AGT GAT CCG GAC GCC GAC
Gly Tyr Gln Ala Asp Leu Cys Thr Asp Asp Gly Arg Ser Ala Ser Asp Pro Asp Ala Asp

800

CAC GCT CGA CAG CTG ATC CGG CTA GCG ATC GCC GCC GTG CTG TTT GTG CCC GTG GCC
His Ala Arg Gln Leu Leu Ile Arg Leu Ala Ile Ala Val Leu Phe Val Pro Val Ala

100

Fig. 4B

850	GAT CTG TCG GTG ATG TTT GGG GTC GTG CCT GCC ACG CGC TTC ACC GGC TGG CAG TGG GTG	900
	Asp Leu Ser Val MET Phe Gly Val Val MET Phe Thr Arg Phe Thr Gly Trp Gln Trp Val	
	120	
	CTA AGC GCG CTG GCA CTG CCG GTC GTG ACC TGG GCG GCG TGG CCG TTT CAC CGC GGT GCG	950
	Leu Ser Ala Leu Ala Leu Pro Val Val Thr Trp Ala Ala Trp Pro Phe His Arg Val Ala	
	140	
	ATG CGC AAC GCC CGC CAC CAC GCC GTC TCC ATG GAG ACG CTA ATC TCG GTC GGT ATC ACG	1000
	MET Arg Asn Ala Arg His His Ala Ala Ser MET Glu Thr Leu Ile Ser Val Gly Ile Thr	
	160	
	GCC GCC ACG ATC TGG TCG CTG TAC ACC GTC TTC GGC AAT CAC TCG CCC ATC GAG CGC AGC	1050
	Ala Ala Thr Ile Trp Ser Leu Tyr Thr Val Phe Gly Asn His Ser Pro Ile Glu Arg Ser	
	180	
	GGC ATA TGG CAG GCG CTG CTG GGA AGC GAT GCT ATT TAT TTC GAG GTC GCG GGT GTC	1100
	Gly Ile Trp Gln Ala Leu Leu Gly Ser Asp Ala Ile Tyr Phe Glu Val Ala Ala Gly Val	
	200	
	1150	1200
	ACG GTG TTC GTG CTG GTG GGG CGG TAT TTC GAG GCG CGC GCC AAG TCG CAG GCG AGT	
	Thr Val Phe Val Leu Val Gly Arg Tyr Phe Glu Ala Arg Ala Lys Ser Gln Ala Gly Ser	
	220	
	GCG CTG AGA GCC TTG GCG GCG CTG AGC GCC AAG GAA GTA GCC GTC CTG CTA CCG GAT GGG	1250
	Ala Leu Arg Ala Leu Ala Ala Leu Ser Ala Lys Glu Val Ala Val Leu Leu Pro Asp Gly	
	240	
	TCG GAG ATG GTC ATC CCG GCC GAC GAA CTC AAA GAA CAG CAG CGC TTC GTG GTG CCG CCA	1300
	Ser Glu MET Val Ile Pro Ala Asp Glu Leu Lys Glu Gln Gln Arg Phe Val Val Arg Pro	
	260	
	GGG CAG ATA GTT GCC GCC GAC GGC CTC GCC GTC GAC GGG TCC GCT GCG GTC GAC ATG AGC	1350
	Gly Gln Ile Val Ala Ala Asp Gly Leu Ala Val Asp Gly Ser Ala Ala Val Asp MET Ser	
	280	

1400
 GCG ATG ACC GGC GAG GCC AAA CCG ACC CGG GTG CGT CCG GGG GGG CAG GTC ATC GGC GGC
 Ala MET Thr Gly Glu Ala Lys Pro Thr Arg Val Arg Pro Gly Gln Val Ile Gly Gly
 300

1450
 ACC ACA GTG CTT GAC GGC CCG CTG ATC GTG GAG GCG GCC GCG GTG GGC GCC GAC ACC CAG
 Thr Thr Val Leu Asp Gly Arg Leu Ile Val Glu Ala Ala Val Gly Ala Asp Thr Gln
 320

1550
 TTC GCC GGA ATG GTC CGC CTC GTT GAG CAA CCG CAG GCG CAA AAG GCC GAC GCA CAG CGA
 Phe Ala Gly MET Val Arg Leu Val Glu Gln Ala Gln Lys Ala Asp Ala Gln Arg
 340

1600
 CTA GCC GAC CGG ATC TCC TCG GTG TTT GTT CCC GCT GTG TTG GTT ATC GCG GCA CTA ACC
 Leu Ala Asp Arg Ile Ser Ser Val Phe Val Pro Ala Val Leu Val Ile Ala Ala Leu Thr
 360

1650
 GCA GCC GGA TGG CTA ATC GCC GGG GGA CAA CCC GAC CGT GCC GTC TCG GCC GCA CTC GCC
 Ala Ala Gly Trp Leu Ile Ala Gly Gln Pro Asp Arg Ala Val Ser Ala Ala Leu Ala
 380

1700
 GTG CTT GTC ATC GCC TGC CCG TGT GCC CTG GGG CTG GCG ACT CCG ACC GCG ATG ATG GTG
 Val Leu Val Ile Ala Cys Pro Cys Ala Leu Gly Leu Ala Thr Pro Thr Ala MET MET Val
 400

1750
 GCC TCT GGT CGC GGT GCC CAG CTC GGA ATA TTT CTG AAG GGC TAC AAA TCG TTG GAG GCC
 Ala Ser Gly Arg Gly Ala Gln Leu Gly Ile Phe Leu Lys Gly Tyr Lys Ser Leu Glu Ala
 420

1800
 ACC CGC GCG GTG GAC ACC GTC GTC TTC GAC AAG ACC GGC ACC CTG ACG ACG GGC CCG CTG
 Thr Arg Ala Val Asp Thr Val Val Phe Asp Lys Thr Gly Thr Leu Thr Thr Gly Arg Leu
 440

1850
 CAG GTC AGT GCG GTG ACC GCG GCA CCG GGC TGG GAG GCC GAC CAG GTG CTC GCC TTG GCC
 Gln Val Ser Ala Val Thr Ala Ala Pro Gly Trp Glu Ala Asp Gln Val Leu Ala Leu Ala
 460

1900

Fig. 4C

GGG ACC GTG GAA GCC GCG TCC GCG CAC TCG GTG GCG CTC GCG ATC GCC GCG GCA ACG ACT Ala Thr Val Glu Ala Ala Ser Glu His Ser Val Ala Leu Ala Ile Ala Ala Thr Thr	1950
CGG CGA GAC GCG GTC ACC GAC TTT CGC GCC ATA CCC GGC CGC GGC GTG AGC GGC ACC GTG Arg Arg Asp Ala Val Thr Asp Phe Arg Ala Ile Pro Gly Arg Gly Val Ser Gly Thr Val	2000
TCC GGG CGG GCG GTA CCG GTG GGC AAA CCG TCA TGG ATC GGG TCC TCG TCG TGC CAC CCC Ser Gly Arg Ala Val Arg Val Gly Lys Pro Ser Trp Ile Gly Ser Ser Ser Cys His Pro	2050
AAC ATG CGC GCG GCC CGG CGG CAC GCC GAA TCG CTG GGT GAG ACG GCC GTA TTC GTC GAG Asn MET Arg Ala Ala Arg Arg His Ala Glu Ser Leu Gly Glu Thr Ala Val Phe Val Glu	2100
GTC GAC GGC GAA CCA TGC GGG GTC ATC GCG GTC GCC GAC GCC GTC AAG GAC TCG GCG CGA Val Asp Gly Glu Pro Cys Gly Val Ile Ala Val Ala Asp Ala Val Lys Asp Ser Ala Arg	2150
GAC GCC GTG GCC GCG CTG GCC GAT CGT GGT CGC ACC ATG CTG TTG ACC GGT GAC AAT Asp Ala Val Ala Ala Leu Ala Asp Arg Gly Leu Arg Thr MET Leu Leu Thr Gly Asp Asn	2200
CCC GAA TCG GCG GCG GCC GTG GCT ACT CGC GTC GGC ATC GAC GAG GTG ATC GCC GAC ATC Pro Glu Ser Ala Ala Ala Val Arg Val Gly Ile Asp Glu Val Ile Ala Asp Ile	2250
CTG CCG GAA GGC AAG GTC GAT GTC ATC GAG CAG CGC GGA CAT GTC GTC GCC Leu Pro Glu Glu Lys Val Asp Val Ile Glu Gln Leu Arg Asp Arg Gly His Val Val Ala	2300
ATG GTC GGT GAC GGC ATC AAC GAC GGA CCC GCA CTG GCC CGT GCC GAT CTA GGC ATG GCC MET Val Gly Asp Gly Ile Asn Asp Gly Pro Ala Leu Ala Arg Ala Asp Leu Gly MET Ala	2350
	2400
	2450
	2500

Fig. 4D

ATC GGG CGC GGC AC GAC GTC GCG ATC GGT GCC GCC GAC ATC ATC TTG GTC CGC GAC CAC
 Ile Gly Arg Gly Thr Asp Val Ala Ile Gly Ala Ala Asp Ile Ile Leu Val Arg Asp His
 660
 CTC GAC GTT GTA CCC CTT GCG CTT GAC CTG GCA AGG GCC ACG ATG CGC ACC GTC AAA CTC
 Leu Asp Val Val Pro Leu Ala Leu Asp Leu Ala Arg Ala Thr MET Arg Thr Val Lys Leu
 680
 AAC ATG GTC TGG GCA TTC GGA TAC AAC ATC GCC GCG ATT CCC GTC GCC GCT GCC GGA CTG
 Asn MET Val Trp Ala Phe Gly Tyr Asn Ile Ala Ala Ile Pro Val Ala Ala Gly Leu
 700
 CTC AAC CCC CTG GTG GCC GGT GCG GCC ATG GCG TTC TCA TCG TTC TTC GTG GTC TCA AAC
 Leu Asn Pro Leu Val Ala Gly Ala Ala MET Ala Phe Ser Ser Phe Val Val Ser Asn
 720
 AGC TTG CGG TTG CGC AAA TTT GGG CGA TAC CCG CTA GGC TGC GGA ACC GTC GGT GGG CCA
 Ser Leu Arg Leu Arg Lys Phe Gly Arg Tyr Pro Leu Gly Cys Gly Thr Val Gly Gly Pro
 740
 CAA ATG ACC GCG CCG TCG TCC GCG TGA TGC GTT GTCGGCAACAGATATCGGGCTCAGCGGCGACCGCA
 Gln MET Thr Ala Pro Ser Ser Ala TER
 761

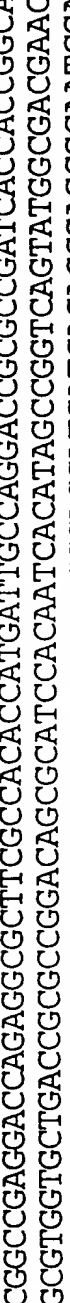


Fig. 4E

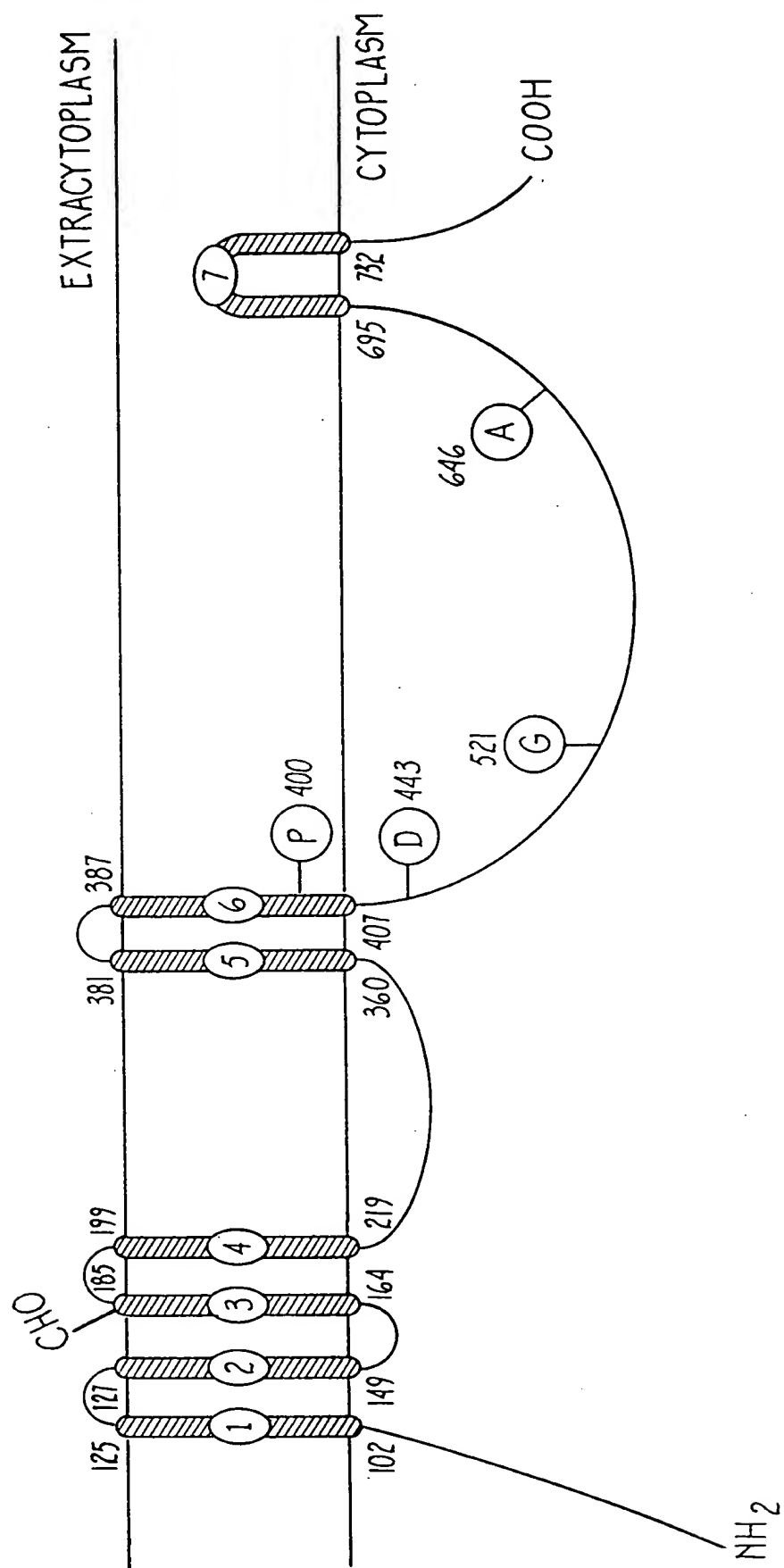


Fig. 5

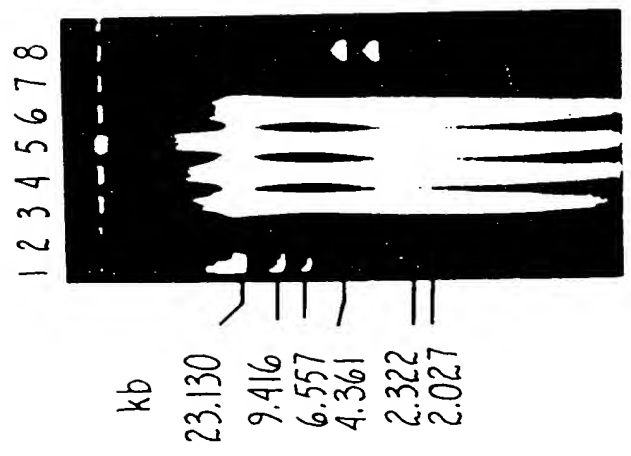


Fig. 6A

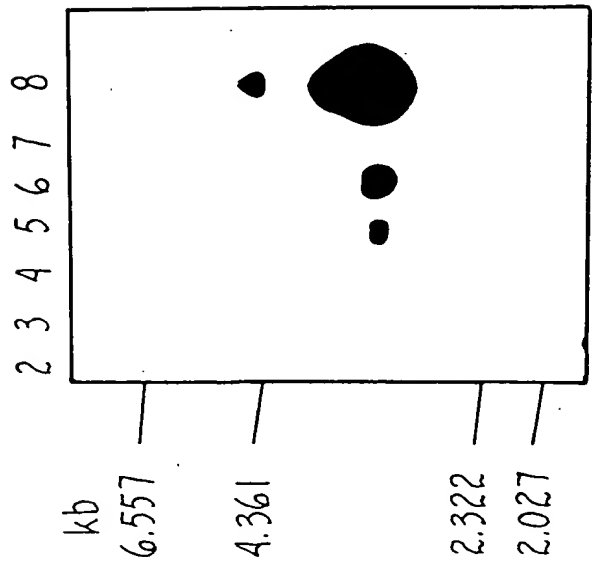


Fig. 6B